

APPARATUS AND METHOD FOR SYNCHRONIZING VIDEO AND AUDIO
MPEG STREAMS IN A VIDEO PLAYBACK DEVICE

ABSTRACT OF THE DISCLOSURE

There is disclosed an MPEG decoder comprising: 1) a packetized
5 elementary stream (PES) interface for receiving a plurality of
packetized elementary streams associated with a single video
program; 2) a presentation time stamp (PTS) detection circuit for
detecting presentation time stamps in the packetized elementary
streams and extracting the presentation time stamps therefrom; and
10 3) a selection circuit for selecting presentation time stamps
associated with a first one of the plurality of packetized
elementary streams and transmitting the selected presentation time
stamps to a clock generation circuit, wherein the clock generation
circuit generates a first reference clock signal used by a first
15 decoder to decode the first packetized elementary stream. The
clock generation circuit further generates a second reference clock
signal synchronized to the first reference clock signal, wherein
the second reference clock signal is used by a second decoder to
decode a second packetized elementary stream in synchronization
20 with the first packetized elementary stream.